

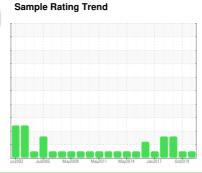
OIL ANALYSIS REPORT

Main Power Generation [450191502]

Generator - MPG (Port) Starting Engine Crank Case (S/N Sample Tag XX-80201-S2) Component

Diesel Engine

PETRO CANADA DURON MOTOR OIL SAE 40 (37 LTR)





DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

= 40 (37 LIR) un2002 Ju2005 May2008 May2011 May2014 Jan2017 Oct2018						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0052563	PC	PC
Sample Date		Client Info		22 Aug 2023	31 Oct 2019	07 Jun 2019
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	11	4	7
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	<1	<1
Lead	ppm	ASTM D5185(m)	>40	2	<1	3
Copper	ppm	ASTM D5185(m)	>330	3	1	1
Tin	ppm	ASTM D5185(m)	>15	1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1.0	2	<1	<1
Barium	ppm	ASTM D5185(m)	1.0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	1.0	6	2	3
Manganese	ppm	ASTM D5185(m)	1	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	15	936	928	825
Calcium	ppm	ASTM D5185(m)	2540	1004	1074	1156
Phosphorus	ppm	ASTM D5185(m)	1000	1148	1132	1059
Zinc	ppm	ASTM D5185(m)	1110	1242	1267	1219
Sulfur	ppm	ASTM D5185(m)	3700	2762	2953	2951
Lithium	ppm	ASTM D5185(m)		<1	<1	0
CONTAMINAL	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	21	21	A 34
Sodium	ppm	ASTM D5185(m)		2	0	1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	3.3	3.8	3.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	12.9	15.3	14.1



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: PC0052563 : 02581999 : 5643064

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received Diagnosed

: 14 Sep 2023 : Kevin Marson Diagnostician

: 13 Sep 2023

Test Package : MOB 2 (Additional Tests: KV40, VI) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Suncor - Terra Nova Projects Scotia Centre, 235 Water Strret

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